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Brake Hughes	7590 04/17/2007		EXAM	INER
C/O Intellevate P.O. Box 52050 Minneapolis, MN 55402			SAX, STEVEN PAUL	
			ART UNIT	PAPER NUMBER
	,		2174	
SHORTENED STATUTO	DRY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Action Comment	09/838,695	DOVE, MICHAEL				
Office Action Summary	Examiner	Art Unit				
	Steven P Sax	2174				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 O	<u>ctober 2006</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowar closed in accordance with the practice under E	,					
Disposition of Claims						
4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-44 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) M Notice of References Cited (PTO-892) 2) Motice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Dransperson's Patent Drawing Review (P10-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		ratent Application (PTO-152)				

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DETAILED ACTION

1. This application has been examined. The amendment filed 10/19/06 has been entered.

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akatsu et al (6523064) and Raheman (7039872) and Sadamatsu (JP 07073181A).
- 4. Regarding claim 1, Akatsu et al show an apparatus for producing a perceptible representation of data, including: an arbiter (column 6 lines 5-30) selecting a dominant program from among a plurality of programs seeking a master persistence attribute to display data of the program according to a predetermined priority technique (column 6 lines 15-50, column 8 lines 30-60, column 11 lines 25-60), and assigning the master persistence attribute to the dominant program (column 14 lines 10-55, column 15 lines 25-60). Akatsu et al do not specifically state that the dominant program displays data concurrently with other programs while not being obscured by them and also does not show the scheme per se, but do show displaying data for efficient viewing.

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Furthermore, Raheman does show displaying multiple program windows such that a dominant (active) one displays data concurrently with other windows while not being obstructed by them according to a predetermined priority scheme (Figures 2, 4, column 4 lines 20-30, column 6 lines 12-45) to display data for efficient viewing. It would have been obvious to a person with ordinary skill in the art to have the dominant program in Akatsu et al display data concurrently with other programs while not being obscured by them according to a predetermined priority scheme, because it would allow displaying of data for efficient viewing. Neither Akatsu et al nor Raheman specifically show that the dominant program itself overlaps other programs, or that the technique used by Akatsu et al is a hierarchy, but Akatsu et al for example do mention indicating priority to a dominant program. Furthermore, Sadamatsu shows indicating priority to a dominant or currently active program by diving to it within a stack and showing it overlapping those applications whose windows are under its window (abstract, Figure 2). This is done in sadamatsu also for efficient viewing of displayed data, which is also taught by Raheman. Thus, it would have been obvious to a person with ordinary skill in the art to have the dominant program overlap other programs in the system suggested by Akatsu et al and Raheman, because it would allow an efficient way to view displayed data, while indicating priority to a dominant window.

5. Regarding claim 2, the access control table is coupled to the arbiter containing indicia representative of the priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).

6. Regarding claim 3, also coupled to the table is the configuration application program (Akatsu et al column 7 lines 30-40, column 11 lines 28-50).

- 7. Regarding claims 4, the I/O manager coupled with the arbiter communicates display data between the application program and a display (Akatsu et al column 12 lines 12-53).
- 8. Regarding claim 5, a graphics device driver coupled with the I/O manager and display transmits the display data to the display (Akatsu et al column 12 lines 12-53).
- 9. Regarding claim 6, in addition to that mentioned for claim 5, the graphics device driver is coupled with the arbiter (Akatsu et al column 12 lines 12-53).
- 10. Regarding claim 7, the indicia includes a priority (Akatsu et al column 6 lines 5-28. Only one of these need be met to satisfy the claim).
- 11. Regarding claim 8, the arbiter has a content addressable memory that provides the priority scheme (Akatsu et al column 10 lines 50-63).
- 12. Regarding claim 9, a gatekeeper determines selected programs to be granted access to the arbiter (Akatsu et al column 6 lines 30-64, column 14 lines 25-55).

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for efficient viewing.

13. Regarding claim 10, Akatsu et al show a graphic display apparatus having a gatekeeper determining selected ones of a plurality of programs to be granted a key to request a persistence attribute according to a predetermined access scheme (column 6 lines 30-64, column 14 lines 25-55). Akatsu et al do not specifically state that the persistence attribute enables a program upon receipt to display data concurrently with other programs while not being obscured by them according to a predetermined priority scheme, but do show displaying data for efficient viewing. Furthermore, Raheman does show displaying multiple program windows such that a dominant (active) one displays data concurrently with other windows while not being obstructed by them according to a predetermined priority scheme (abstract, Figures 12, 16, column 5 lines 30-54) to display data for efficient viewing. It would have been obvious to a person with ordinary skill in the art to have the persistence attribute enable a program in Akatsu et al to display data concurrently with other programs while not being obscured by them, according to a predetermined priority scheme, because it would allow displaying of data

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14. Regarding claim 11, the graphics display driver, coupled with the gatekeeper, couples display data of the selected ones with a display (Akatsu et al column 12 lines 12-53).

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15. Regarding claim 12, Akatsu et al show the arbiter (column 6 lines 5-30) selecting a dominant program from among a plurality of programs seeking a master persistence attribute to display data of the program according to a predetermined priority technique (column 6 lines 15-50, column 8 lines 30-60, column 11 lines 25-60), and assigning the master persistence attribute to the dominant program (column 14 lines 10-55, column 15 lines 25-60).

- 16. Regarding claim 13, the access control table is coupled to the arbiter containing indicia representative of the priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).
- 17. Regarding claim 14, the I/O manager is coupled with the gatekeeper and manages graphical data between the selected ones and the display (Akatsu et al column 12 lines 12-53).
- 18. Regarding claim 15, an application manager is coupled with the gatekeeper to prevent unauthorized access to an operating system by the selected ones (Akatsu et al column 6 lines 20-50, column 8 lines 30-50).
- 19. Regarding claim 16, the graphics driver, coupled with the application manager, transmits graphical data to display data on the display (Akatsu et al column 12 lines 12-53).

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20. Regarding claim 17, a configuration application program, coupled with the gatekeeper, configures the gatekeeper with the predetermined priority scheme (Akatsu et al column 6 lines 15-50, column 10 lines 50-64).

- 21. Regarding claim 18, the configuration table, coupled to the gatekeeper, stores indicia representative of the predetermined priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).
- 22. Regarding claim 19, the indicia includes a priority (Akatsu et al column 6 lines 5-28. Only one of these need be met to satisfy the claim).
- 23. Claim 20 recites the same features as claim 12 and is rejected for the same reasons.
- 24. Regarding claim 21, Akatsu et al show the configuration table, coupled with the gatekeeper, containing indicia representative with the predetermined priority scheme (column 10 lines 50-64, column 11 lines 10-25. Only this choice needs to be met to satisfy the claim as it is recited in alternative form).

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25. Regarding claim 22, the configuration application couples with the configuration table to configure the gatekeeper (Akatsu et al column 12 lines 20-50. Only this need be shown to satisfy the claim as it is recited in alternative form).

- 26. Regarding claims 23, the I/O manager coupled with the arbiter communicates display data between the application program and a display (Akatsu et al column 12 lines 12-53).
- 27. Regarding claim 24, a graphics device driver coupled with the I/O manager and display transmits the display data to the display (Akatsu et al column 12 lines 12-53).
- 28. Regarding claim 26, a graphics device driver coupled with the arbiter transfers the display data to the display (Akatsu et al column 12 lines 12-53).
- 29. Regarding claims 25 and 27, a display buffer is coupled with the graphics display driver (Akatsu et al Figure 2, column 5 lines 1-10, implicit).
- 30. Regarding claim 28, the I/O manager coupled with the graphic display driver communicates display data between the application program and a display (Akatsu et al column 12 lines 12-53).

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31. Regarding claim 29, the application manager is coupled with the gatekeeper to prevent unauthorized access to an operating system by a program (Akatsu et al column 6 lines 20-50, column 8 lines 30-50).

- 32. Regarding claim 30, the indicia includes a priority (Akatsu et al column 6 lines 5-28. Only one of these need be met to satisfy the claim).
- 33. Regarding claim 31, Akatsu et al show the video input receiving the graphical signal and the video output coupled with a display (Figures 6, 7, column 5 lines 1-30), a display controller coupled with the video input signal and selectively transmitting the graphical data signal to the video output (column 5 lines 10-45), an arbiter (column 6 lines 5-30) coupled with the display controller effecting the selectively transmitting by granting a persistence attribute according to a predetermined priority technique to a window for displaying on a display (column 6 lines 15-50, column 8 lines 30-60, column 11 lines 25-60), the display controller transmitting accordingly, wherein the video output writes data to a set of pixel memory locations which are later read by the display (column 5 lines 10-45). Akatsu et al do not specifically state that the window granted the persistence attribute has exclusive access to a portion of the set of pixel memory locations per se, but do mention convenient access of data among plural programs. Furthermore, Raheman shows that a given (active) window does in fact have exclusive access to its portion of the set of pixel memory locations, such that all program windows are conveniently accessed. It would have been obvious to a person with ordinary skill in

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the art to have the window granted the persistence attribute have exclusive access to a portion of the set of pixel memory locations, because it would allow convenient access of data among plural programs. Neither Akatsu et al nor Raheman specifically mention that the persistence granted window takes the place of another window which would have access to the portion of the pixel memory locations, but Akatsu et al for example do mention indicating priority to the persistence granted window. Furthermore, Sadamatsu shows indicating priority to a current persistence/active granted program by diving to it within a stack and showing it taking the place of other windows which would have access to the portion of pixel memory locations which are under its window (abstract, Figure 2). This is done in Sadamatsu also for efficient viewing of displayed data, which is also taught by Raheman. Thus, it would have been obvious to a person with ordinary skill in the art to have the persistence granted program take the place of other windows which would otherwise have access to the portion of pixel memory locations, in the system suggested by Akatsu et al and Raheman, because it would allow an efficient way to view displayed data, while indicating priority to a persistence granted program.

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34. Regarding claim 32, Akatsu et al show the CPU interface coupled to the CPU receiving display control signals and the arbiter being responsive thereto (column 5 lines 1-20, column 6 lines 5-23).

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35. Regarding claim 33, the CPU includes the gatekeeper coupled with the arbiter and transmitting to it the scheme (Akatsu et al column 11 lines 25-60).

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- 36. Regarding claim 34, the CPU includes the gatekeeper coupled with the arbiter and selecting display control signals having access to the arbiter (Akatsu et al column 11 lines 25-60).
- 37. Regarding claim 35, the access control table is coupled to the arbiter and receiving indicia representative of the priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25).
- 38. Regarding claim 36, the indicia includes a priority (Akatsu et al column 6 lines 5-28. Only one of these need be met to satisfy the claim).
- 39. Regarding claim 37, Akatsu et al show: requesting the master persistence attribute from a gatekeeper (column 6 lines 30-64, column 14 lines 25-55), assigning a set of priority rules to the gatekeeper via a configuration application program (column 8 lines 30-60, column 11 lines 25-60), the gatekeeper granting keys to the selected dominant application programs allowing access to an arbiter (column 6 lines 5-30), the arbiter examing an arbiter access control table storing the predetermined priority scheme (Akatsu et al column 10 lines 50-64, column 11 lines 10-25), the arbiter assigning the persistence attribute to the one of the plurality of dominant application

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programs granting access to a display window (column 12 lines 27-62, column 8 lines 30-60).). Akatsu et al do not specifically state that the dominant program displays data concurrently with other programs while not being obscured by them according to a predetermined priority scheme, but do show displaying data for efficient viewing. Furthermore, Raheman does show displaying multiple program windows such that a dominant (active) one displays data concurrently with other windows while not being obstructed by them according to a predetermined priority scheme (abstract, Figures 12, 16. column 5 lines 30-54) to display data for efficient viewing. It would have been obvious to a person with ordinary skill in the art to have the dominant program in Akatsu et al display data concurrently with other programs while not being obscured by them, according to a predetermined priority scheme, because it would allow displaying of data for efficient viewing. Neither Akatsu et al nor Raheman specifically show that the dominant program itself overlaps other programs, but Akatsu et al for example do mention indicating priority to a dominant program. Furthermore, Sadamatsu shows indicating priority to a dominant or currently active program by diving to it within a stack and showing it overlapping those applications whose windows are under its window (abstract, Figure 2). This is done in Sadamatsu also for efficient viewing of displayed data, which is also taught by Raheman. Thus, it would have been obvious to a person with ordinary skill in the art to have the dominant program overlap other programs in the system suggested by Akatsu et al and Raheman, because it would allow an efficient way to view displayed data, while indicating priority to a dominant window.

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46. Claim 44 shows the same features as claim 1 and is rejected for the same reasons.

- Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection. Applicant's representative is invited to contact Examiner to discuss the new art.
- 47. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

48. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven P. Sax whose telephone number is (571) 272-

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46. Claim 44 shows the same features as claim 1 and is rejected for the same reasons.

- 46. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
- 47. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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4072. The examiner can normally be reached on Monday thru Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on (571) 272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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